

CLAIMS

1. A monopole antenna comprising:
a helical radiating element including a first longitudinal portion having a first winding pitch and a second longitudinal portion having a second winding pitch;
and
a cylindrical radiating element generally coaxial with said helical radiating element and extending along at least most of said first longitudinal portion.
2. A monopole antenna according to claim 1 and also comprising a dielectric separator located between said helical radiating element and said cylindrical radiating element.
3. A monopole antenna according to claim 1 or claim 2 and also comprising a dielectric insert located interior of said helical radiating element and being configured to maintain said first winding pitch of said first longitudinal portion of said helical radiating element.
4. A monopole antenna according to any of the previous claims wherein said second winding pitch is greater than said first winding pitch.
5. A monopole antenna according to claim 4 and wherein said second winding pitch is 40-50% greater than said first winding pitch.